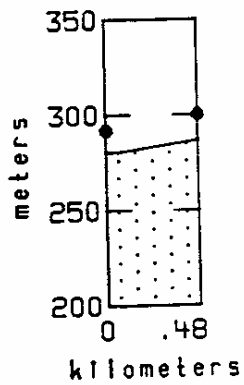
T1–.5–R1

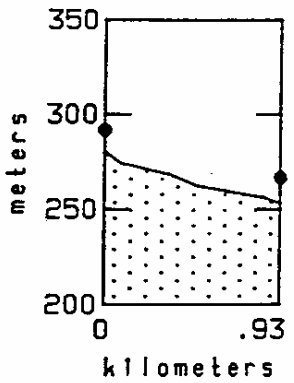
Path length, .48 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 8/24/66–van 1 | 59.8 | 70.3 | 93.4 | 84.5 | 121.5 | 130.9 | 158.3 |

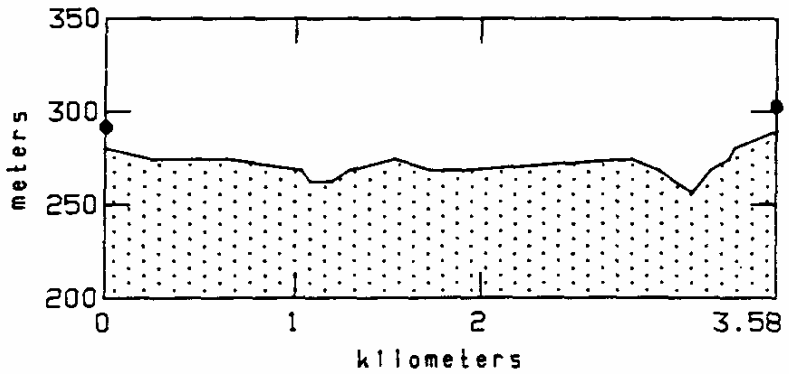
The site is in an open field; antennas are intervisible.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 8/24/66–van 1 | 54.8 | 66.3 | 80.4 | 90.5 | 92.5 | 121.9 | 134.3 |

Antennas are intervisible.

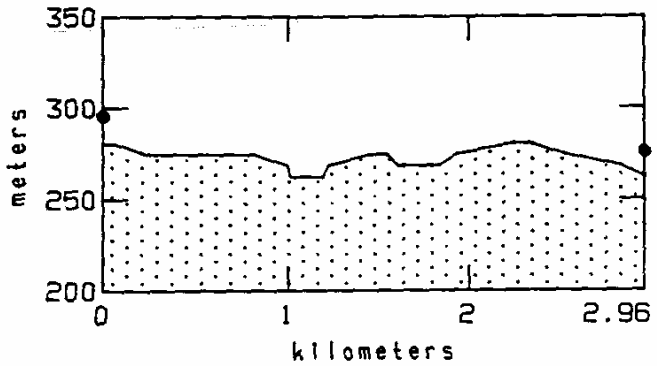



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 8/30/66–van 1 | 81.4 | 97.7 | 110.6 | 116.9 | 132.6 | 171.9 | 172.3 |

The site is in a pasture with low trees in the foreground about 100 m away.

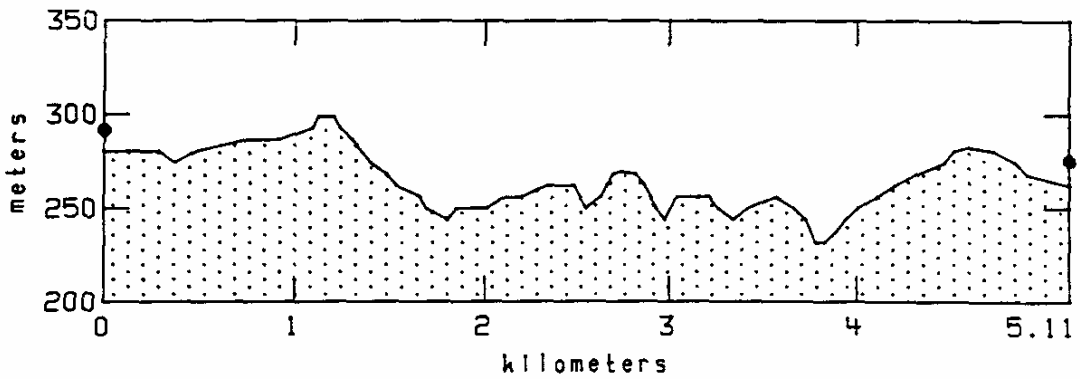
T1–3–R2 Path length, 2.96 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/21/66–van 1 | 82.9 | 95.2 | 100.1 | 107.2 | 119.7 | 137.5 | 141.8 |

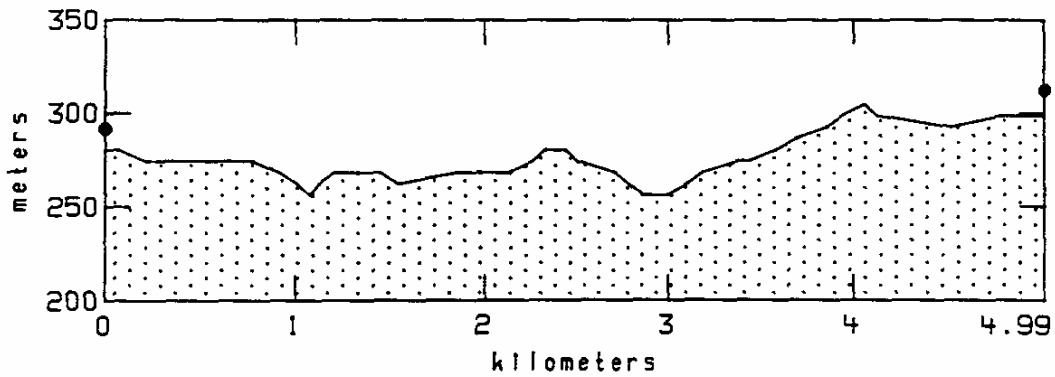
The site is in a pasture with trees about 150 m in front of the antenna tower.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/01/66–van 1 | 97.9 | 104.7 | 113.2 | 147.4 | 135.0 | 173.4 | 179.3 |

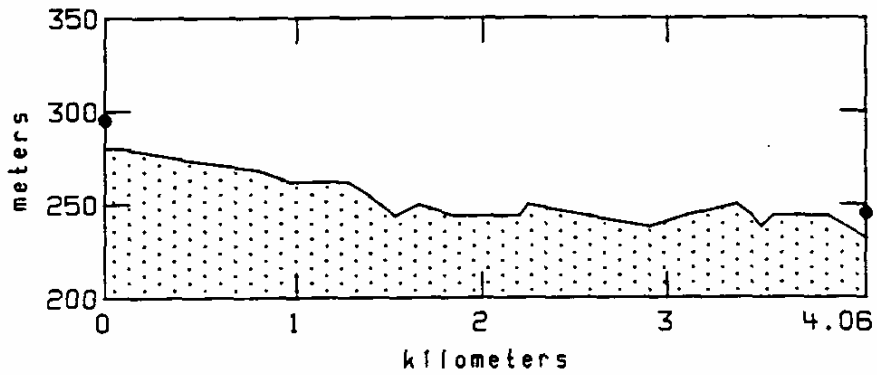
The site is in a clearing; there are oak trees about 300 m in front of the antennas.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 8/31/66–van 1 | 93.9 | 104.7 | 143.7 | 117.9 | 134.5 | 171.4 | Noise |
| 10/10/66–van 1 | 85.9 | 113.2 | 113.7 | 128.6 | Noise | Noise | 152.3 |

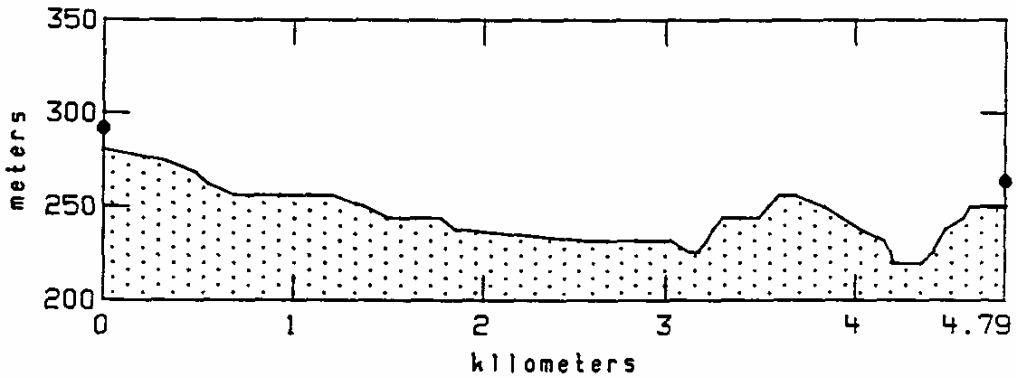
The site is in a weedy field with large trees about 800 m in front of the antennas.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/18/66–van 1 | 87.8 | 105.2 | 111.7 | 122.5 | 123.2 | 140.3 | 143.3 |

There are low trees and brush distributed along the path.

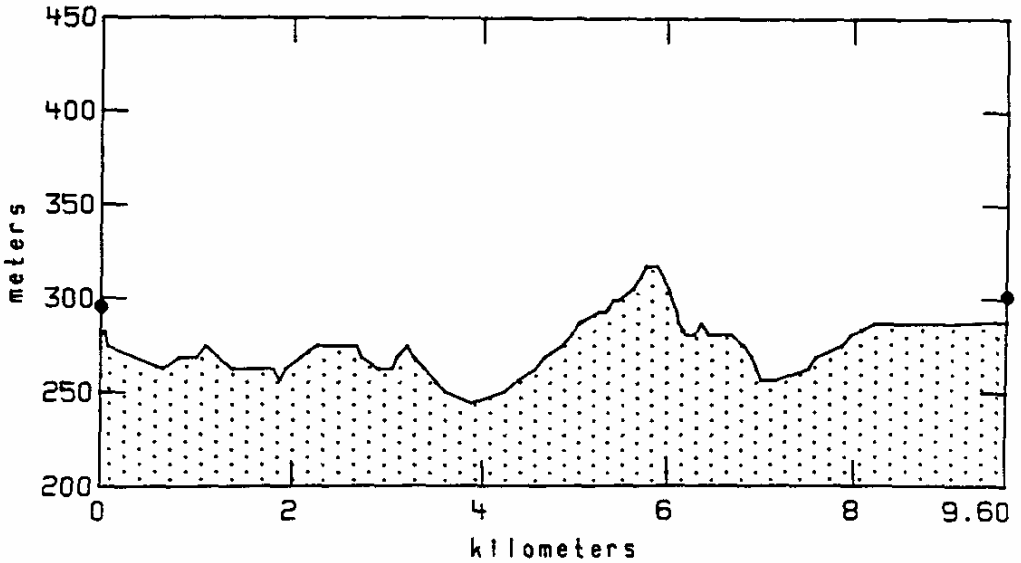



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/06/66–van 1 | 90.9 | – | 116.7 | 121.3 | 131.7 | 179.5 | 154.1 |
| 10/11/66–van 1 | 89.9 | 102.7 | 110.7 | 128.6 | 131.3 | 172.6 | 167.3 |

The site is in a pasture. Oak trees are about 150 m away.

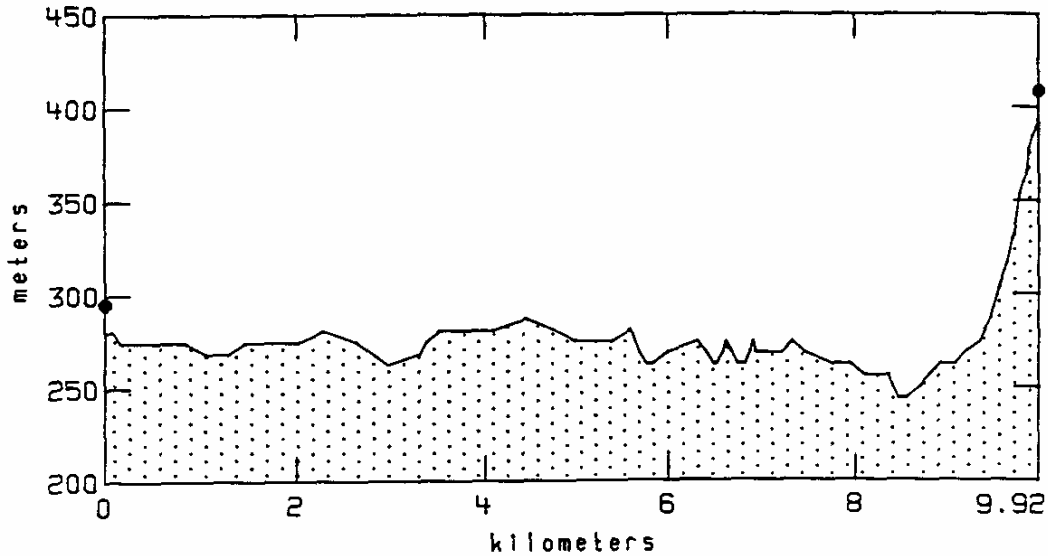
T1–10–R1 Path length, 9.60 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/13/66–van 1 | 107.4 | 117.7 | 125.2 | 135.5 | 143.1 | 156.8 | 169.3 |

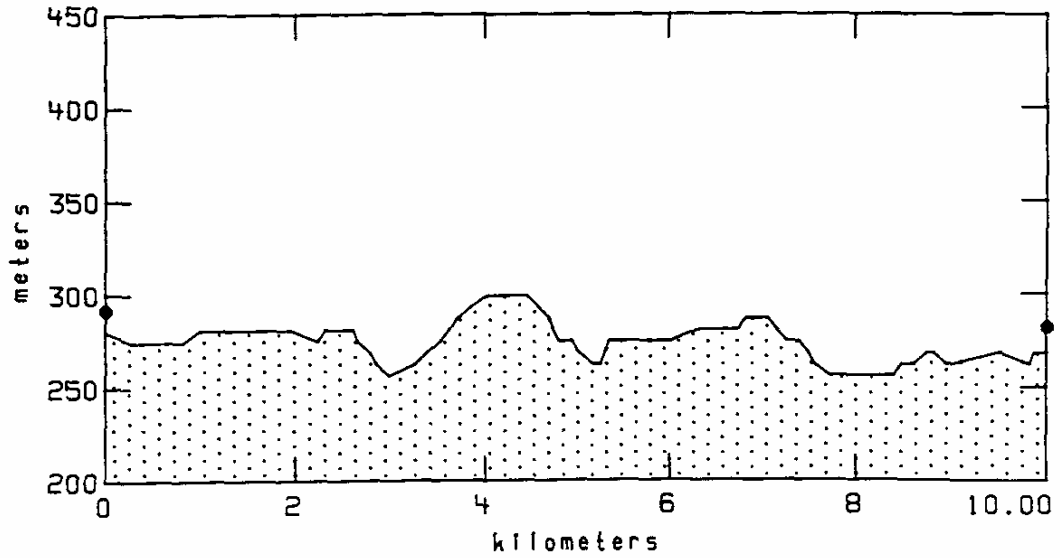
The site is across from an unimproved road. There are trees about 350 m away.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 10/14/66–van 2 | 96.8 | 100.0 | 115.1 | 111.8 | 118.3 | 135.4 | 157.0 |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/14/66–van 1 | 93.0 | 99.7 | 110.7 | 114.9 | 121.0 | 130.5 | 157.8 |

No comments are available.

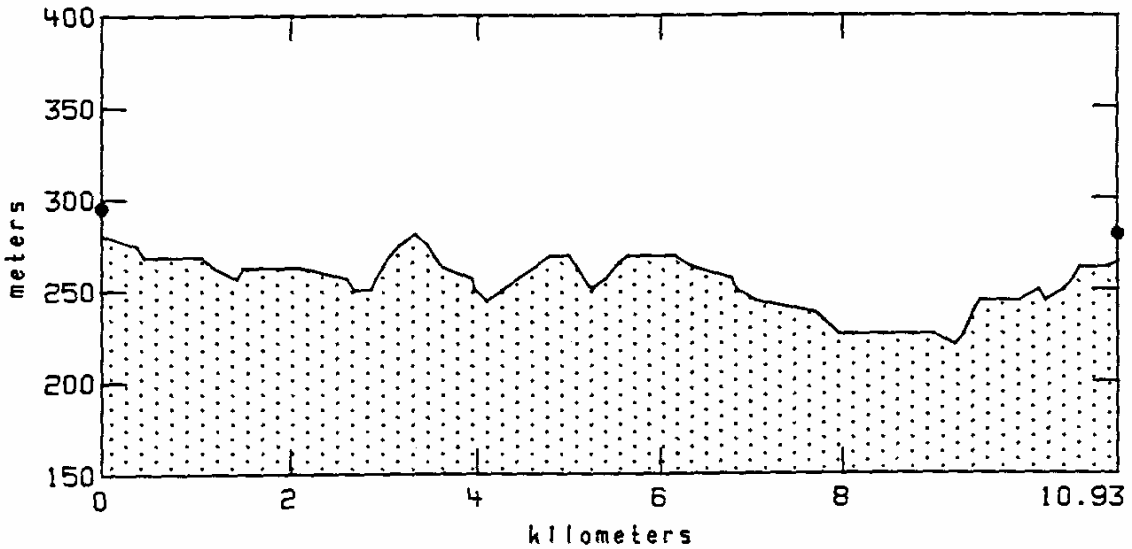



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/09/66–van 1 | 109.5 | 117.7 | 133.8 | 148.8 | Noise | 174.0 | Noise |

The site is in a pasture. There are power lines about 150 m away.

T1–10–R4 Path length, 10.93 km

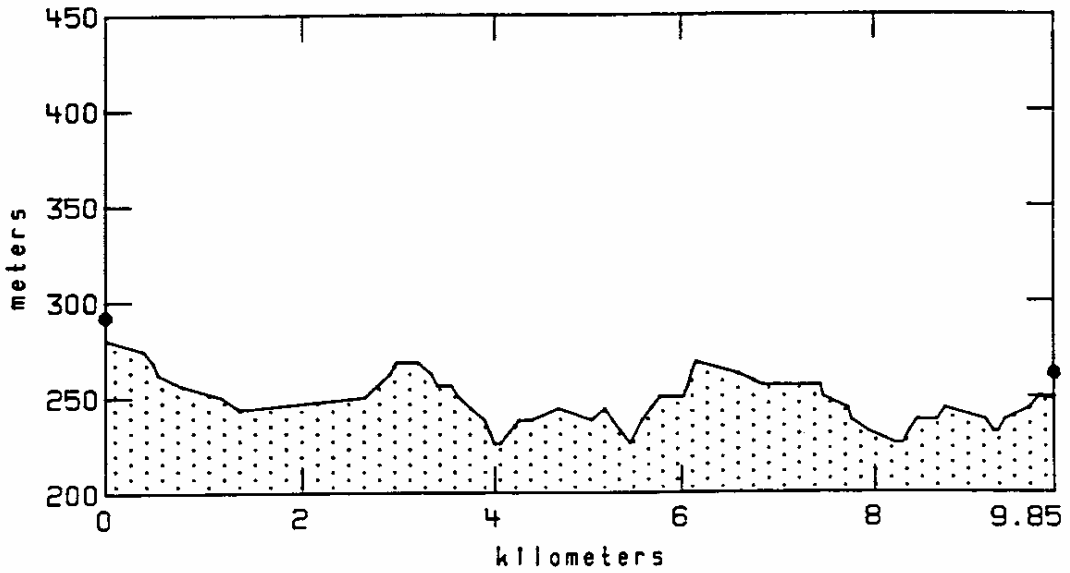



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 10/13/66–van 2 | 104.8 | 121.5 | 134.1 | 144.3 | 151.3 | 167.4 | 169.7 |

The site is in a pasture. There are large oak trees about 300 m from the antennas.

T1-10-R5 Path length, 9.85 km

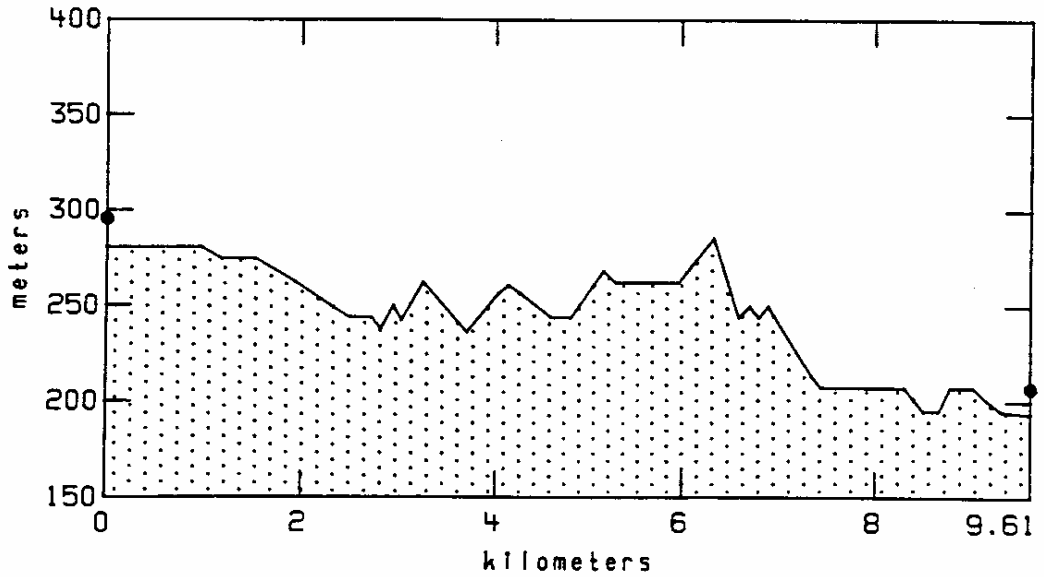



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.8 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/09/66–van 1 | 101.5 | 118.4 | 132.3 | 144.8 | 144.7 | 162.5 | 164.4 |

This is an open site, but there are low trees about 30 m away and large trees about 150 m distant.

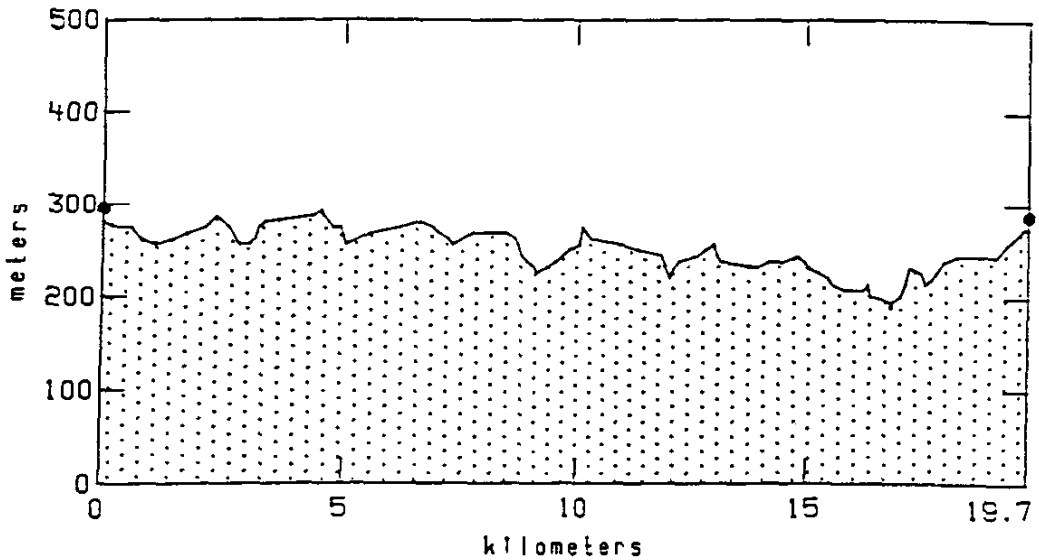
T1–10–R6 Path length, 9.61 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/17/66–van 1 | 102.9 | 118.2 | 127.7 | 138.5 | – | 178.4 | 180.3 |

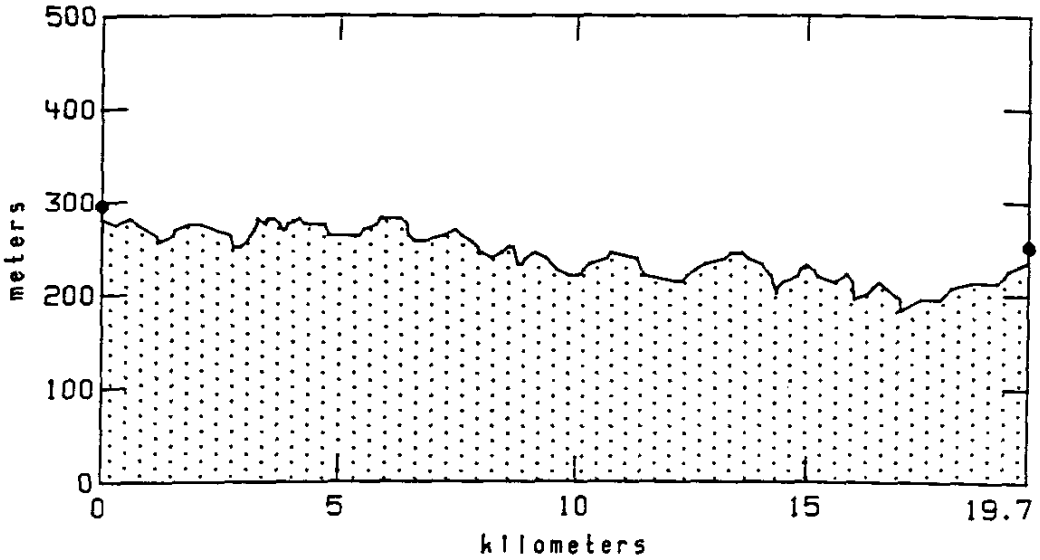
The path is clear all the way to the horizon.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>9/16/66–van 1 | 12.1<br>119.2 | 12.1<br>129.8 | 13.5<br>143.1 | 15.0<br>162.3 | 14.0<br>Noise | 14.0<br>Noise | 14.5<br>Noise |
| Rcvr hts, m<br>9/16/66–van 2 | 15.0<br>115.1 | 15.0<br>129.0 | 15.0<br>141.0 | 11.7<br>160.8 | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Rcvr hts, m<br>10/07/66–van 2 | 2.0<br>135.6 | 2.0<br>142.4 | 2.0<br>153.2 | 2.0<br>174.6 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

This is a concealed site with no accompanying open site. There are 20-m high trees about 15 m in front of the antennas.

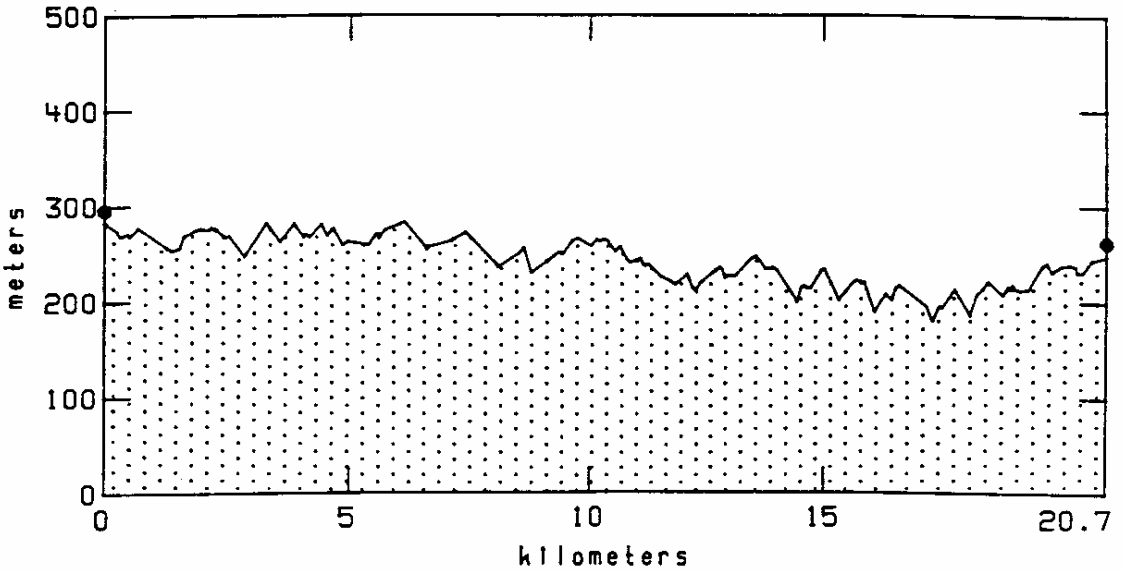



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>9/20/66–van 2 | 15.0<br>118.8 | 15.0<br>137.3 | 15.0<br>140.4 | 11.7<br>196.8 | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Rcvr hts, m<br>9/20/66–van 2 | 2.0<br>132.6 | 2.0<br>139.9 | 2.0<br>169.7 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is in a church parking lot with dense tree foliage about 60 m away. This is a concealed site with no accompanying open site.

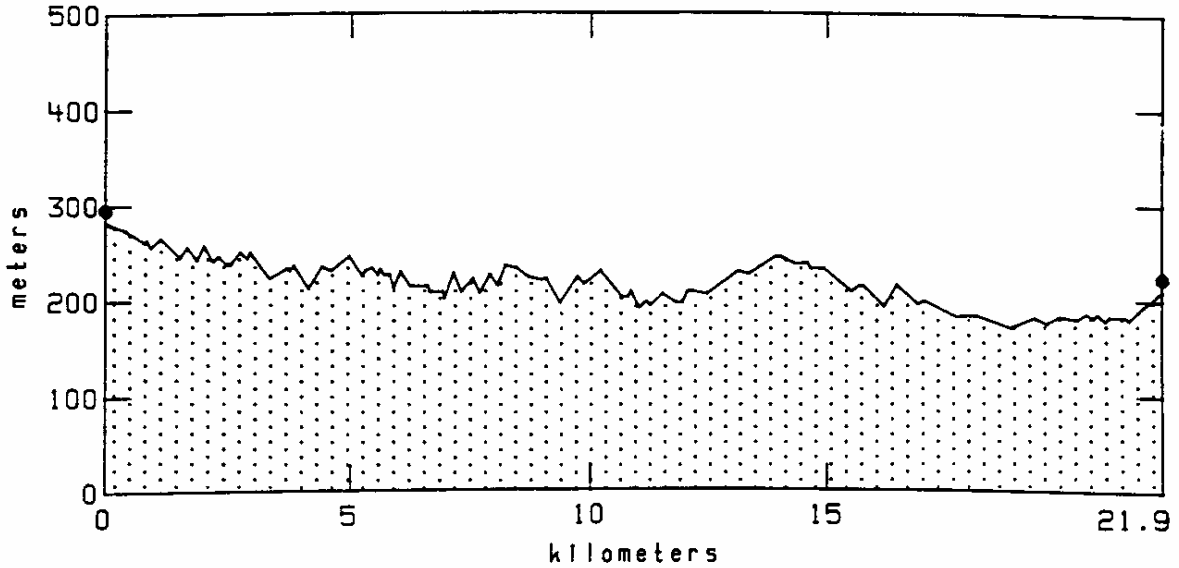
T1–20–R3 Path length, 20.7 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/25/66–van 1 | 111.9 | 135.7 | 141.7 | 147.5 | 157.0 | 172.5 | 179.3 |

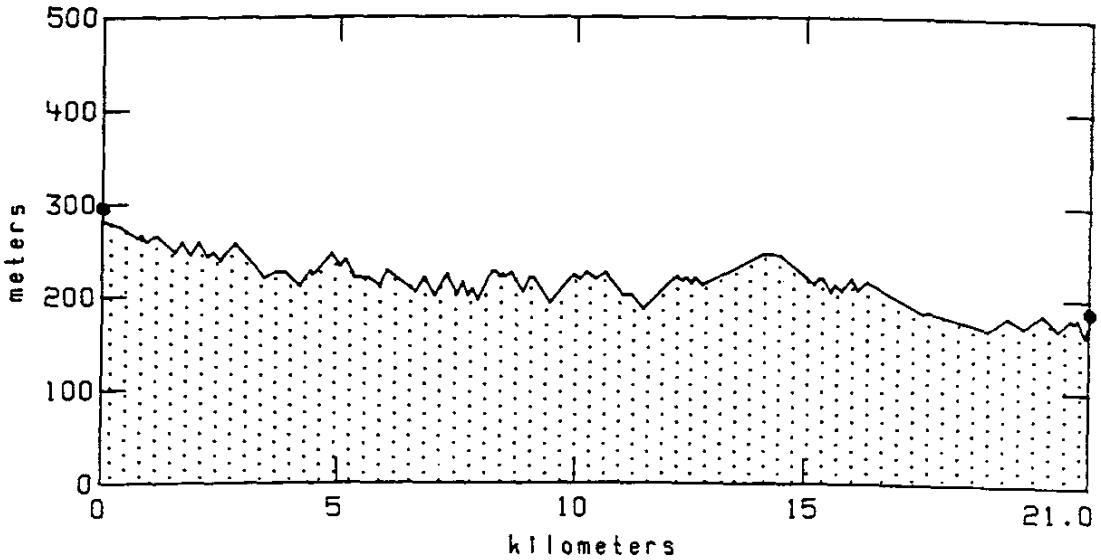
There are large trees adjacent to the path, about 250 m from the site.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/24/66–van 1 | 102.4 | 119.2 | 125.7 | 134.9 | 139.0 | 146.5 | 163.3 |

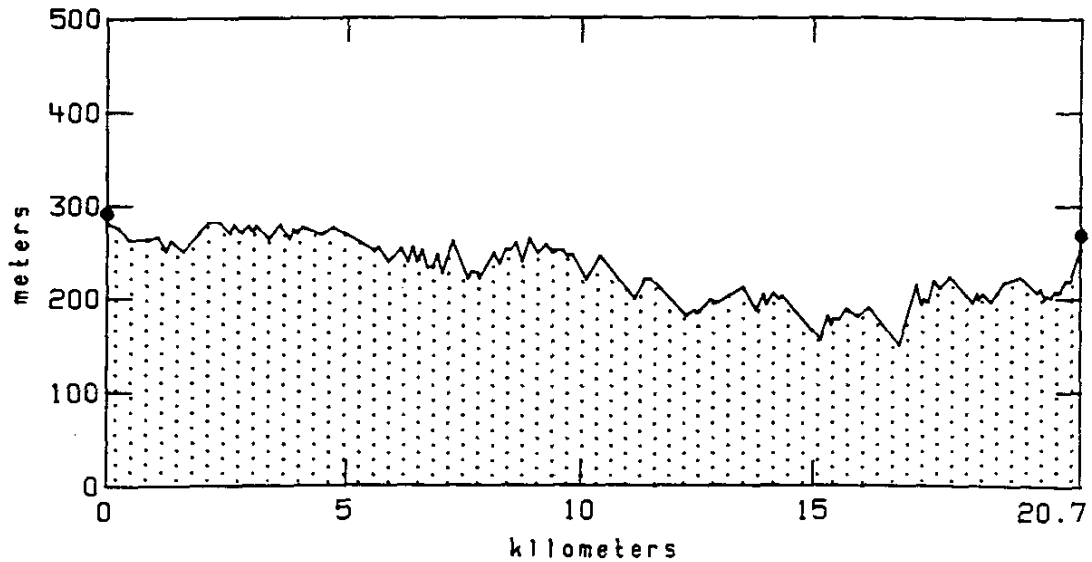
There is a cornfield in the near foreground; but the path is clear to the horizon.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 10/24/66–van 1 | 115.9 | 128.2 | 133.7 | 136.9 | 143.0 | 158.5 | 175.3 |

The site is open with telephone lines parallel to the path and power lines crossing it 400 m away.

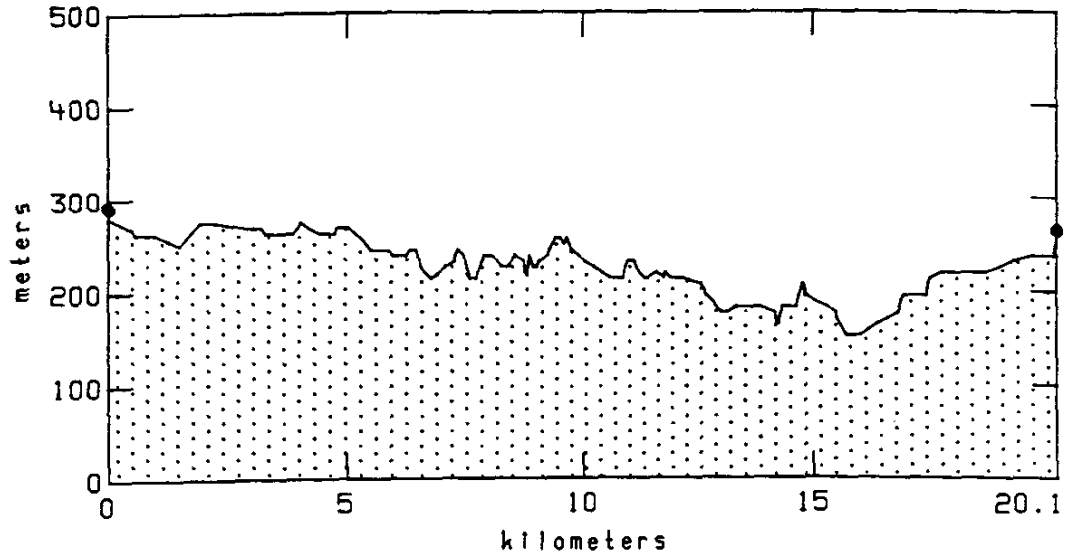



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 9/26/66–van 2 | 109.0 | 119.3 | 131.9 | 176.0 | Noise | 175.9 | Noise |
| Rcvr hts, m | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 9/26/66–van 2 | 118.1 | 119.9 | 139.7 | 175.6 | Noise | 177.9 | Noise |

Dense trees obstruct the path about 20 m in front of the antennas. This is a concealed site with no accompanying open site.

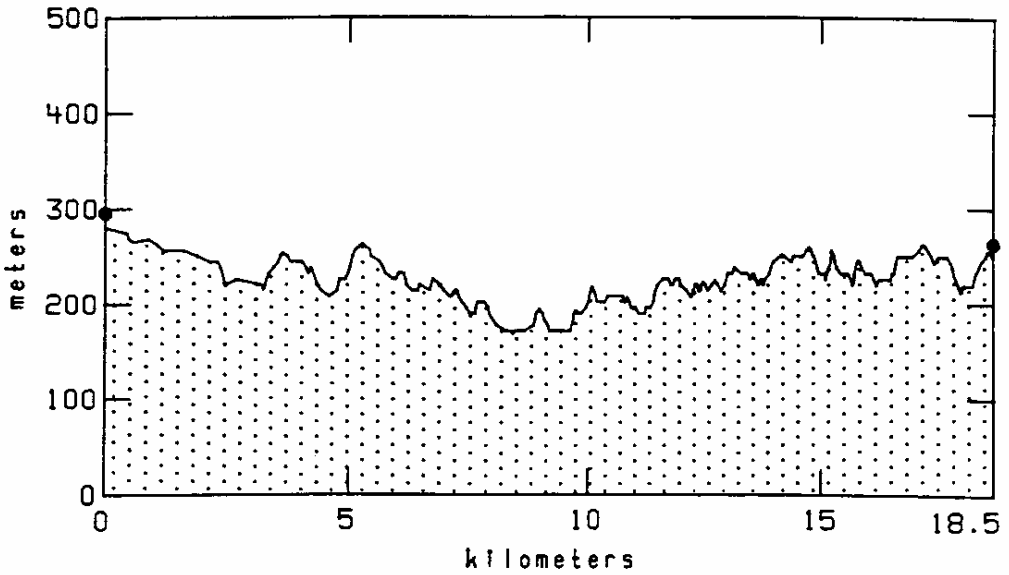
T1–20–R7 Path length, 20.1 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 13.3 | 13.3 | 13.3 | 10.0 | 10.0 | 10.0 | 10.0 |
| 9/22/66–van 2 | 109.5 | 116.8 | 129.4 | 146.0 | Noise | 162.4 | 185.2 |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 9/23/66–van 2 | – | 115.8 | 130.4 | – | – | 160.4 | 176.2 |

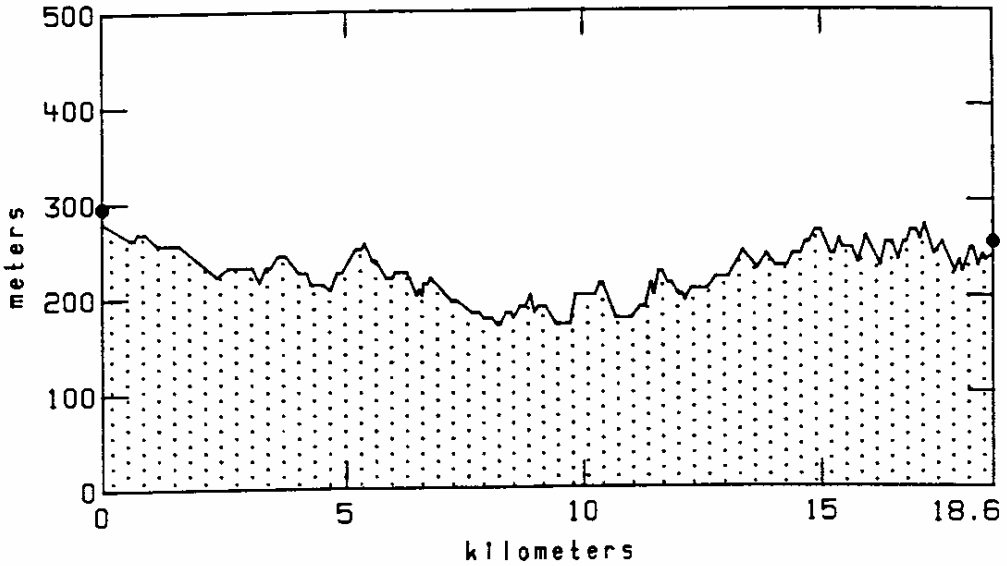
The path is clear all the way to the horizon.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 11/10/66–van 1 | 102.4 | 118.4 | 132.7 | 145.0 | 151.0 | 173.5 | 182.0 |

The site is in a pasture with trees adjacent to the path at a distance of about 250 m.

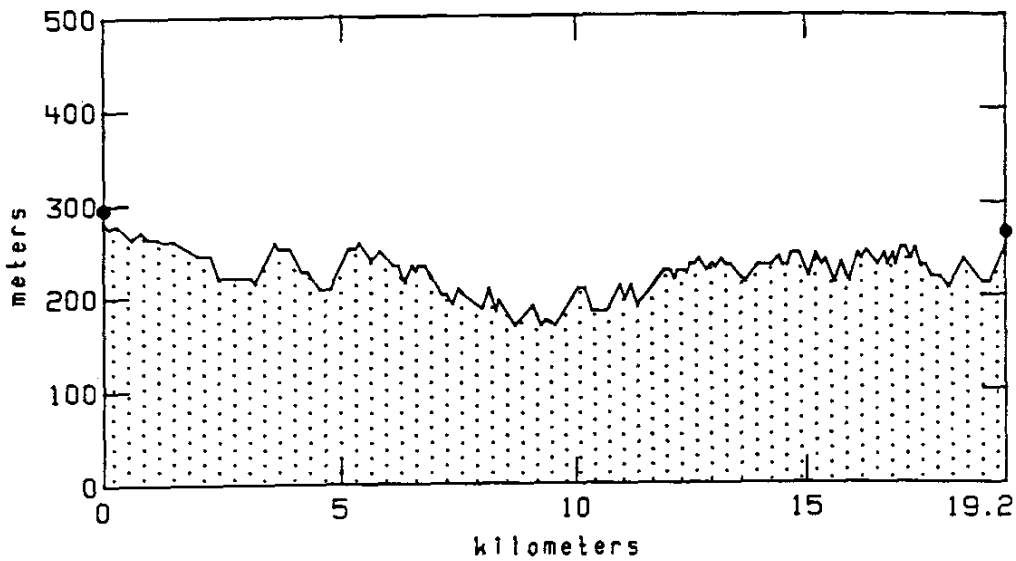



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/03/66–van 1 | 10.0<br>117.4 | 10.0<br>131.2 | 12.4<br>141.2 | 13.9<br>151.3 | 12.9<br>Noise | 12.9<br>174.0 | 13.4<br>Noise |
| Rcvr hts, m<br>10/03/66–van 1 | 2.0<br>129.9 | 2.0<br>140.3 | 2.0<br>151.4 | 2.0<br>172.0 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

This is an open site, but there are trees about 150 m away.

T1–20–R10 Path length, 19.2 km

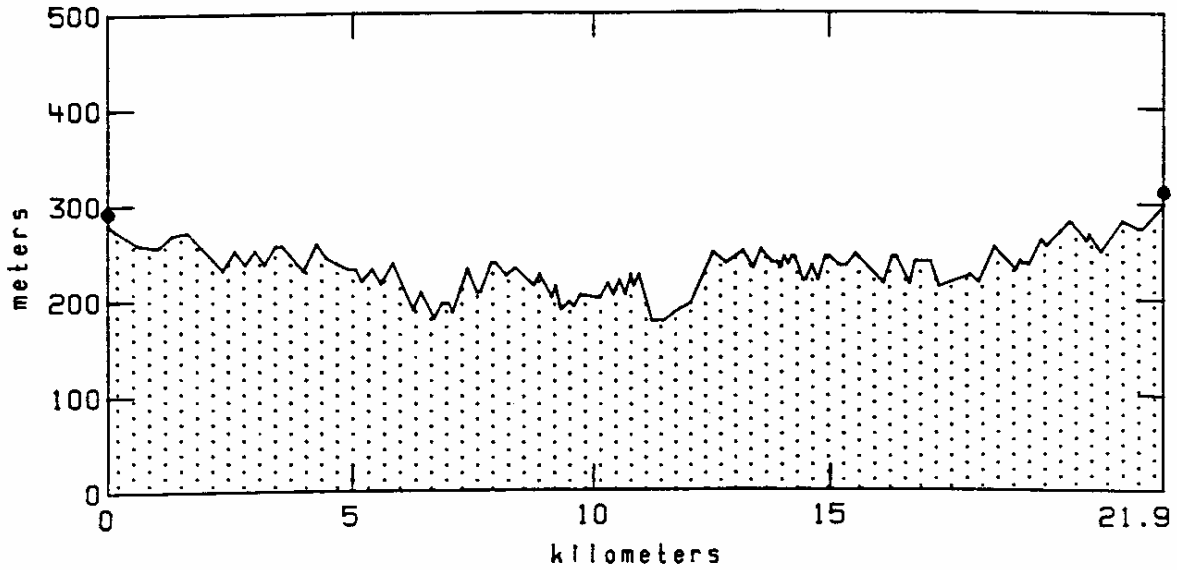



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 11/09/66–van 1 | 100.9 | 123.7 | 131.2 | 139.0 | 136.2 | 148.1 | 165.5 |

The site is in a pasture with trees about 200 m distant.

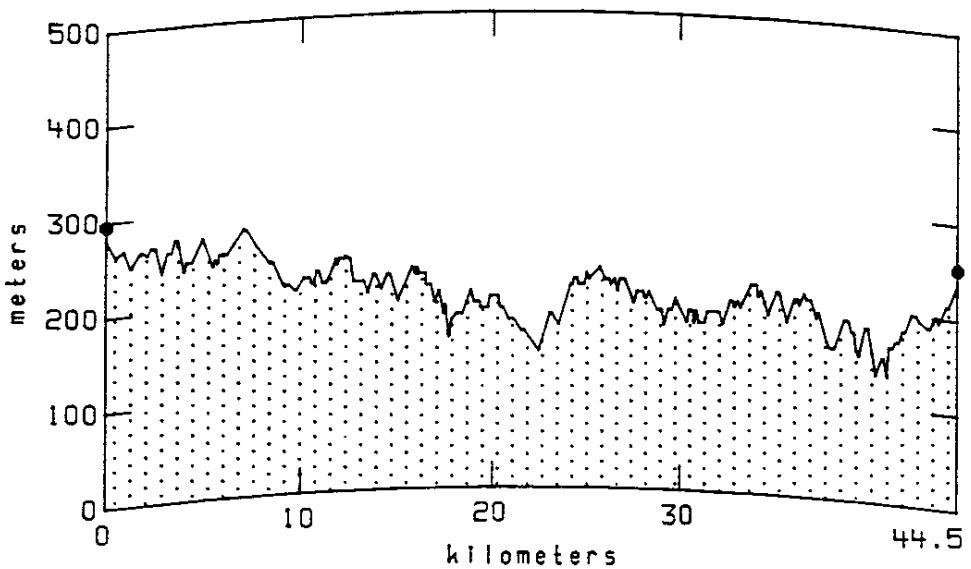
T1–20–R11 Path length, 21.9 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.8 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/23/66–van 1 | 108.9 | 121.7 | 128.7 | 143.9 | Noise | 165.5 | 165.8 |
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 9/30/66–van 1 | – | – | – | 143.6 | 141.3 | 159.5 | 169.3 |
| Concealed: | | | | | | | |
| Rcvr hts, m | 10.0 | 10.0 | 12.4 | 13.9 | 12.9 | 12.9 | 13.4 |
| 9/30/66–van 1 | 115.9 | 128.2 | 132.7 | 139.6 | Noise | 163.0 | Noise |
| Rcvr hts, m | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 9/30/66–van 1 | 121.9 | 136.8 | 144.4 | 148.8 | Noise | Noise | Noise |

The site is in a pasture, and the path is clear to the horizon. For the concealed position, the tower was moved behind a grove of trees.

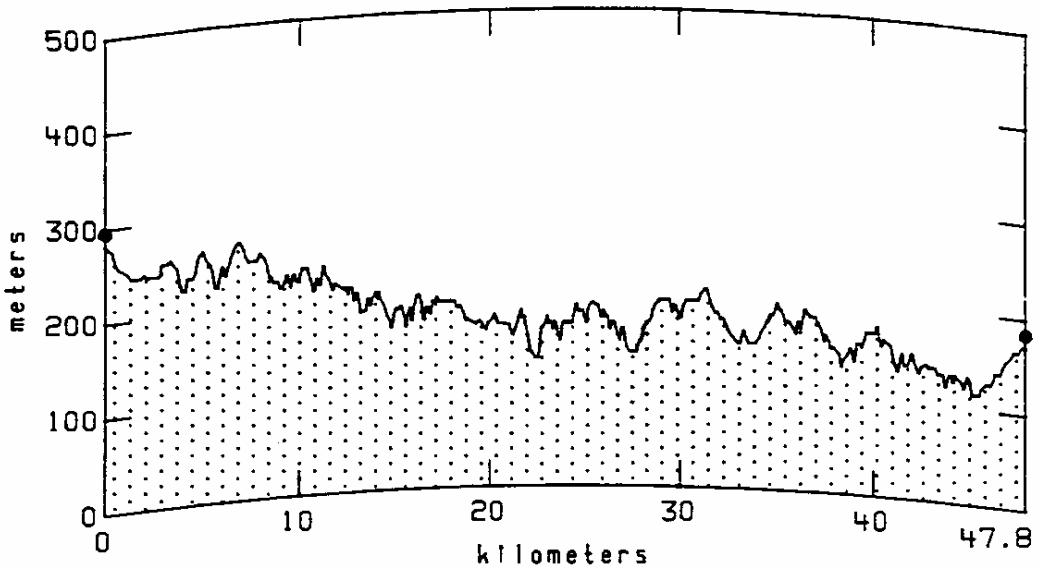



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/10/66–van 2 | 15.0<br>122.0 | 15.0<br>135.0 | 15.0<br>144.2 | 11.7<br>154.3 | 11.7<br>– | 11.7<br>178.9 | 11.7<br>186.5 |
| Rcvr hts, m<br>11/02/66–van 1 | 15.0<br>– | 15.0<br>– | 15.0<br>– | 11.7<br>– | 14.0<br>158.5 | 11.7<br>– | 11.7<br>– |
| Concealed: | | | | | | | |
| Rcvr hts, m<br>10/11/66–van 2 | 15.0<br>120.3 | 15.0<br>136.5 | 15.0<br>145.5 | 11.7<br>151.7 | 11.7<br>– | 11.7<br>174.9 | 11.7<br>175.5 |
| Rcvr hts, m<br>11/02/66–van 1 | 15.0<br>– | 15.0<br>– | 15.0<br>– | 11.7<br>– | 12.9<br>161.0 | 11.7<br>– | 11.7<br>– |
| Rcvr hts, m<br>10/11/66–van 2 | 2.0<br>134.1 | 2.0<br>138.9 | 2.0<br>142.6 | 2.0<br>162.0 | 2.0<br>– | 2.0<br>Noise | 2.0<br>Noise |
| 11/02/66–van 1 | – | – | – | – | 177.7 | – | – |

From the open position there are telephone lines crossing the path at 15 m and a large oak tree to the side, 150 m away. The 8 GHz signal of October 10 is highly variable because of winds. The concealed position is 8 m behind oak trees.

T1-50-R2 Path length, 47.8 km

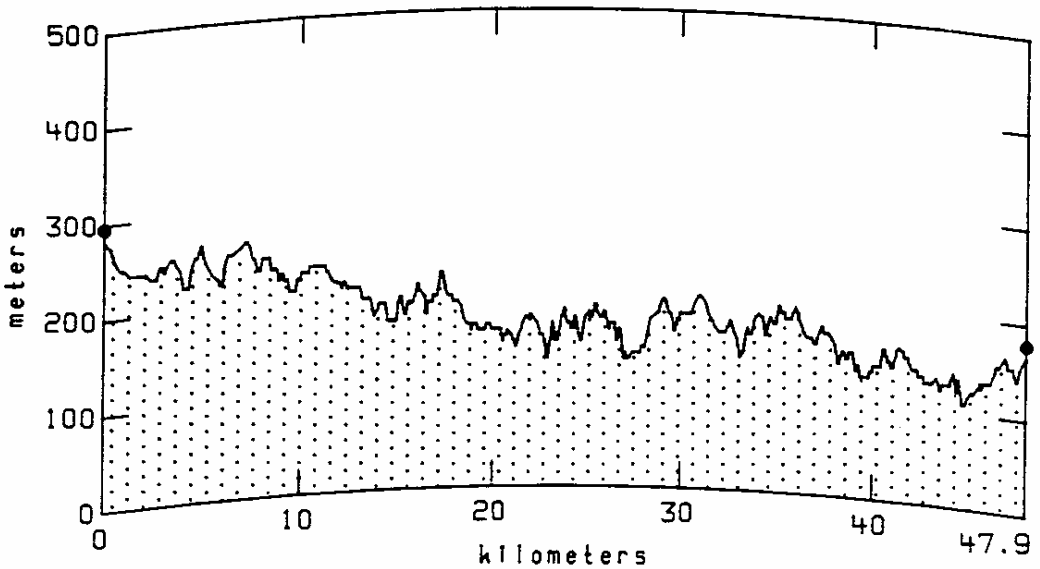



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 11/08/66–van 1 | 126.9 | 140.2 | 149.2 | 165.5 | 165.5 | 176.5 | Noise |

The site is by the side of a road. The path is clear to the horizon with trees on one side.

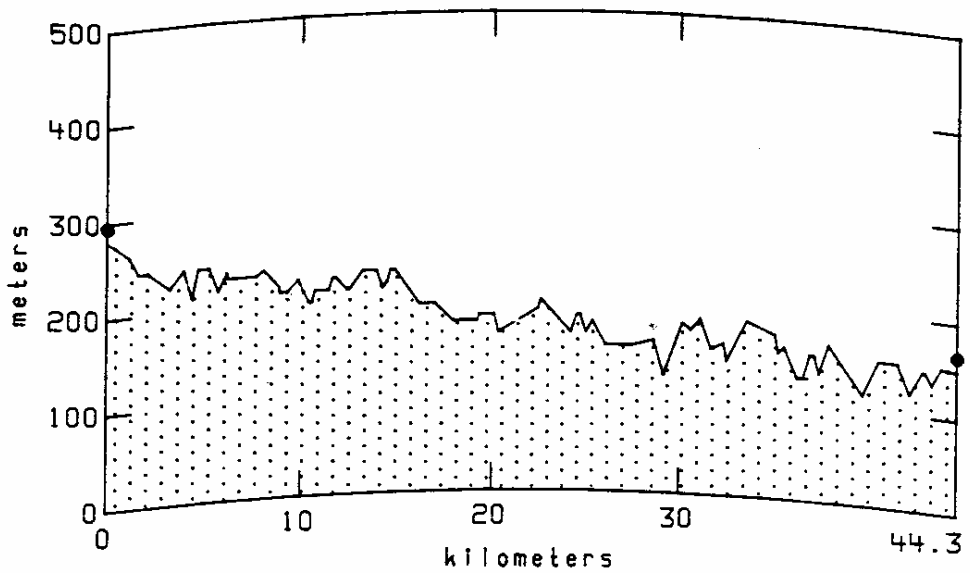
T1–50–R3 Path length, 47.9 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 12.1 | 12.1 | 13.5 | 15.0 | 14.0 | 14.0 | 14.5 |
| 11/07/66–van 1 | 128.8 | 142.8 | 150.7 | 168.9 | 165.0 | 185.5 | Noise |

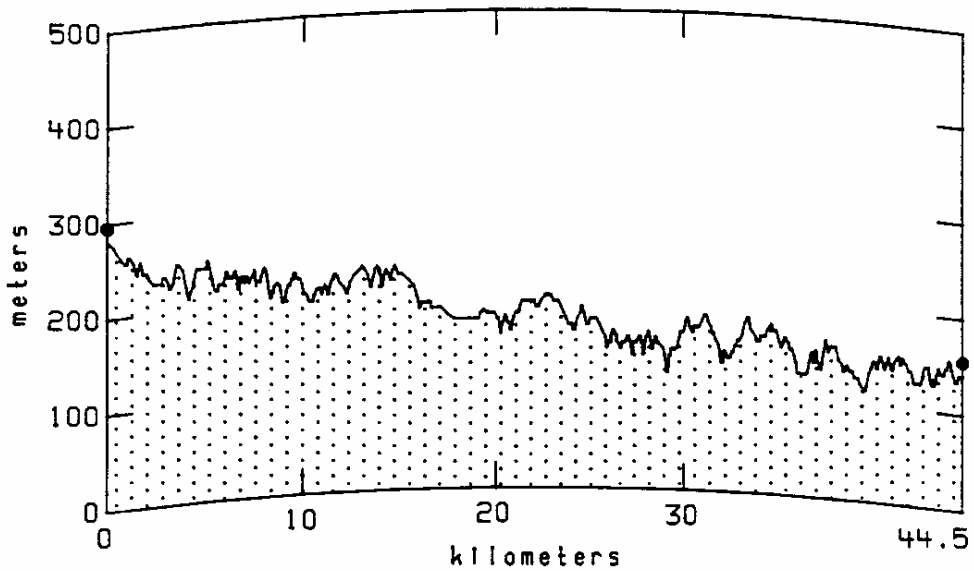
There are large trees about 500 m in front of the site.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>11/11/66–van 2 | 15.0<br>130.3 | 15.0<br>148.0 | 15.0<br>162.7 | 11.7<br>173.7 | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Rcvr hts, m<br>11/11/66–van 2 | 2.0<br>143.6 | 2.0<br>– | 2.0<br>– | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is obstructed by dense woods. This is a concealed site with no accompanying open site.

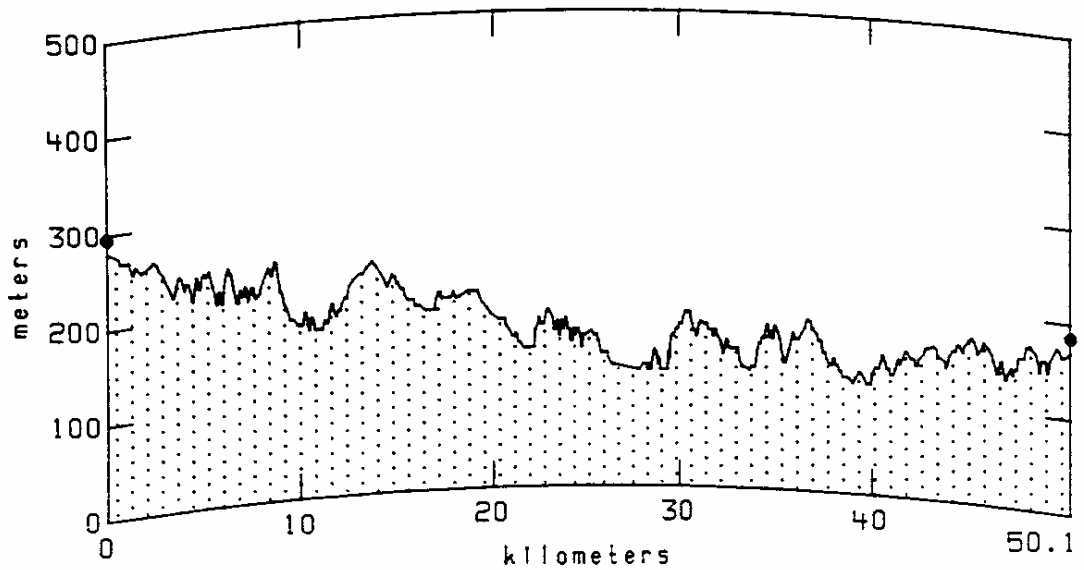



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/05/66–van 1 | 12.1<br>127.9 | 12.1<br>139.7 | 13.5<br>142.9 | 15.0<br>150.3 | 14.0<br>166.5 | 14.0<br>181.0 | 14.5<br>193.3 |
| Concealed: | | | | | | | |
| Rcvr hts, m<br>10/06/66–van 1 | 10.0<br>131.8 | 10.0<br>150.7 | 12.4<br>164.7 | 13.9<br>170.1 | 12.9<br>Noise | 12.9<br>Noise | 13.4<br>Noise |
| Rcvr hts, m<br>10/06/66–van 1 | 2.0<br>141.4 | 2.0<br>151.8 | 2.0<br>162.9 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is in a pasture with a cornfield ahead and then large trees at about 300 m. The concealed position is behind some other large trees.

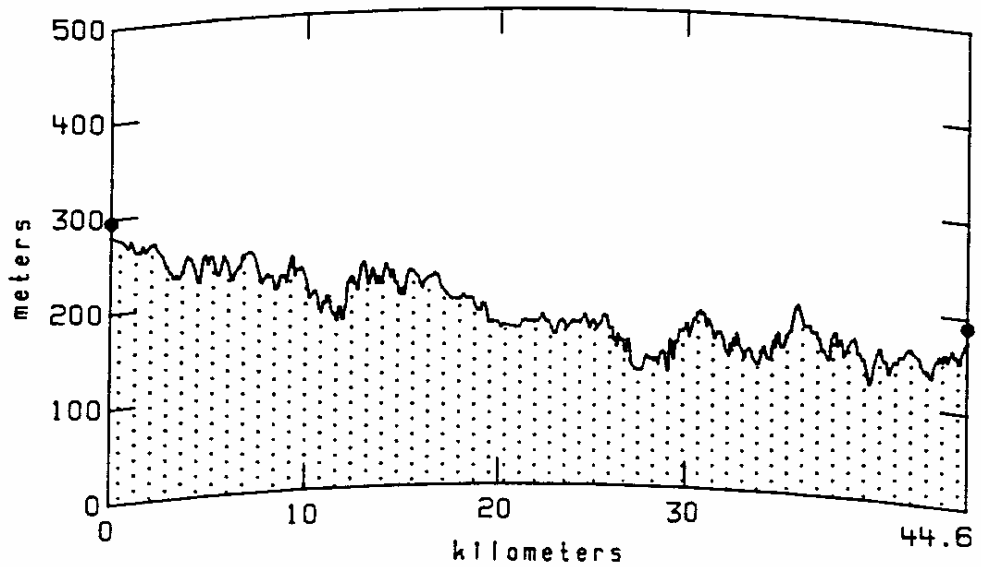
T1–50–R6 Path length, 50.1 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 14.0 | 11.7 | 11.7 |
| 10/06/66–van 2 | 129.8 | 149.5 | 151.7 | 168.2 | 190.4 | 198.9 | Noise |

The site is in a large plowed field; there are large trees about 800 m ahead.

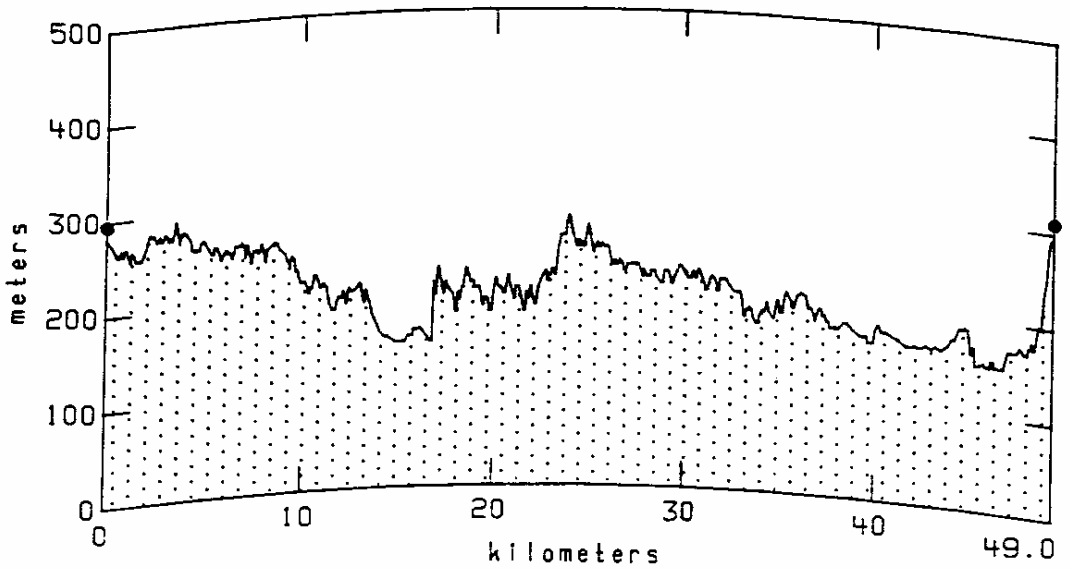



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 14.0 | 11.7 | 11.7 |
| 10/12/66–van 2 | 126.3 | 143.0 | 148.5 | 159.7 | 166.4 | 190.0 | Noise |

The site is in a field with low overgrowth and with large trees about 150 m ahead.

T1–50–R8 Path length, 49.0 km

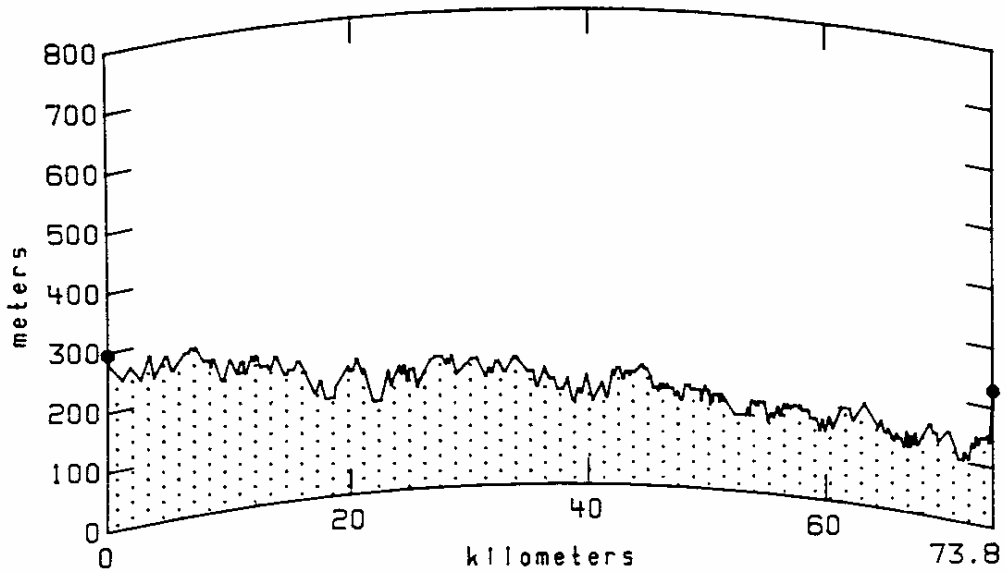



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/04/66–van 2 | 15.0<br>125.3 | 15.0<br>133.5 | 15.0<br>141.0 | 11.7<br>158.2 | 14.0<br>172.3 | 11.7<br>Noise | 11.7<br>Noise |
| Concealed: | | | | | | | |
| Rcvr hts, m<br>10/31/66–van 1 | 10.0<br>118.9 | 10.0<br>143.5 | 12.4<br>142.1 | 13.9<br>156.4 | 12.9<br>169.0 | 12.9<br>Noise | 13.4<br>Noise |
| Rcvr hts, m<br>11/01/66–van 1 | 2.0<br>129.9 | 2.0<br>139.8 | 2.0<br>159.4 | 2.0<br>172.3 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is in an open pasture about 150 m from large oak trees in the path. The concealed position is 10 m behind large oak trees.

T1–80–R1 Path length, 73.8 km

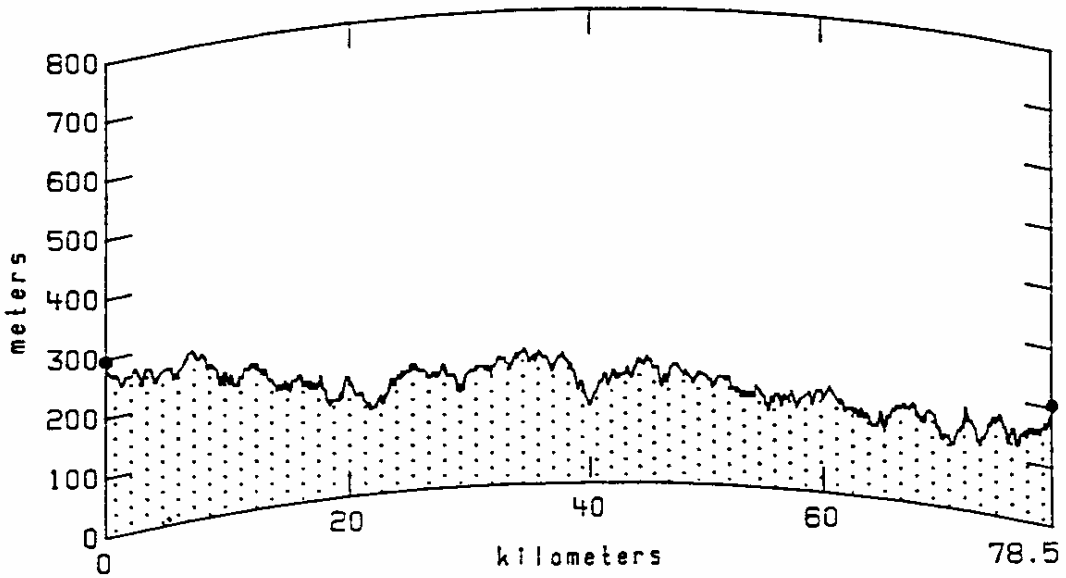



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/17/66–van 2 | 15.0<br>135.3 | 15.0<br>149.5 | 15.0<br>167.2 | 11.7<br>170.8 | 11.7<br>180.8 | 11.7<br>Noise | 11.7<br>Noise |
| Concealed: | | | | | | | |
| Xmtr hts, m | 13.3 | | | 10.0 | | | |
| Rcvr hts, m<br>10/18/66–van 2 | 13.3<br>132.2 | 13.3<br>149.0 | 13.3<br>173.1 | 10.0<br>180.3 | 10.0<br>189.8 | 10.0<br>Noise | 10.0<br>Noise |
| Xmtr hts, m | 13.3 | | | 11.7 | | | |
| Rcvr hts, m<br>10/18/66–van 2 | 2.0<br>149.1 | 2.0<br>159.9 | 2.0<br>163.2 | 2.0<br>188.6 | 2.0<br>195.7 | 2.0<br>Noise | 2.0<br>Noise |

The site is on a mountain top and the path is clear all the way to the horizon. The concealed position is behind a dense grove of trees.

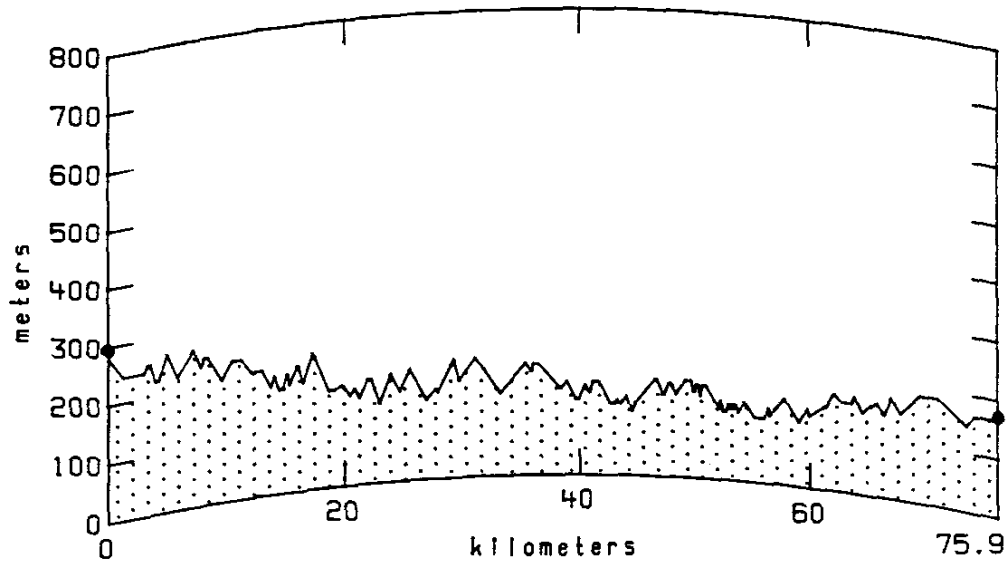
T1–80–R2 Path length, 78.5 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>11/08/66–van 2 | 15.0<br>132.3 | 15.0<br>160.0 | 15.0<br>177.6 | 11.7<br>185.8 | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Concealed: | | | | | | | |
| 11/09/66–van 2 | 141.8 | 158.0 | 169.6 | 186.8 | Noise | Noise | Noise |
| Rcvr hts, m<br>11/09/66–van 2 | 2.0<br>158.6 | 2.0<br>169.9 | 2.0<br>176.7 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

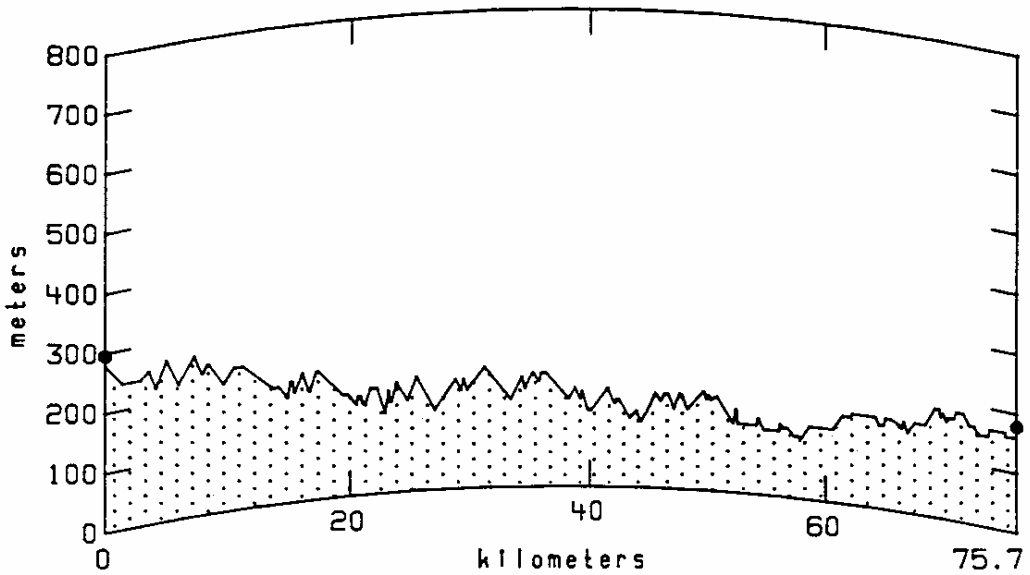
The site is in a church parking lot. A small cemetery is in the foreground and large pines stand 200 m ahead. The concealed position is about 15 m behind large oak trees.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/21/66–van 2 | 13.3<br>139.3 | 13.3<br>164.9 | 13.3<br>180.6 | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise |
| Rcvr hts, m<br>10/21/66–van 2 | 2.0<br>154.6 | 2.0<br>169.9 | 2.0<br>182.2 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is behind a densely wooded area 15 m from the antennas. This is a concealed site with no accompanying open site.

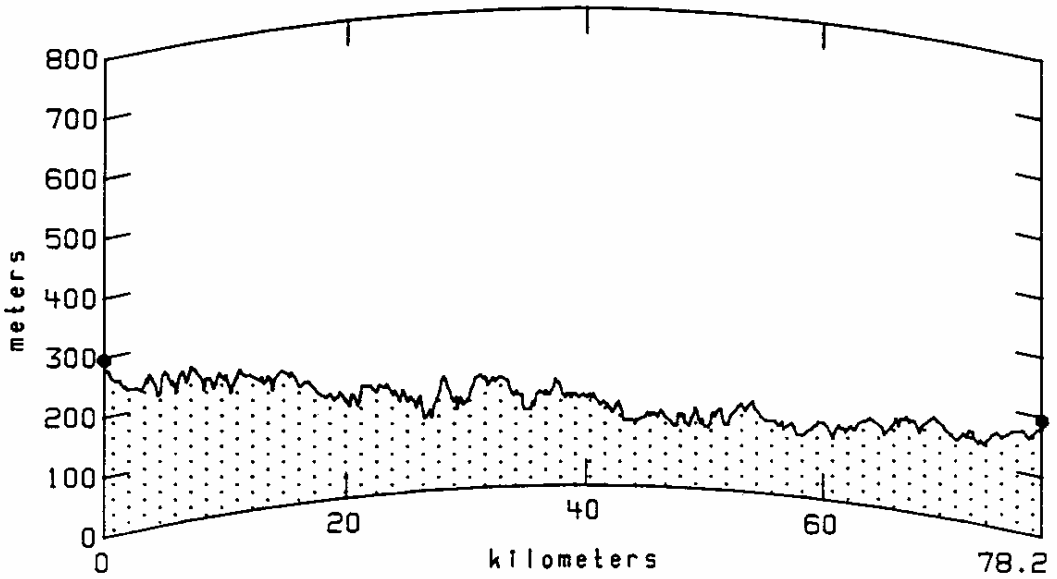



Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 13.3 | 13.3 | 13.3 | 10.0 | 10.0 | 10.0 | 10.0 |
| 10/20/66–van 2 | 141.8 | 164.0 | 175.6 | 185.8 | Noise | Noise | Noise |

The site is on the edge of a rural road; the path crosses a plowed field before reaching trees 500 m ahead.

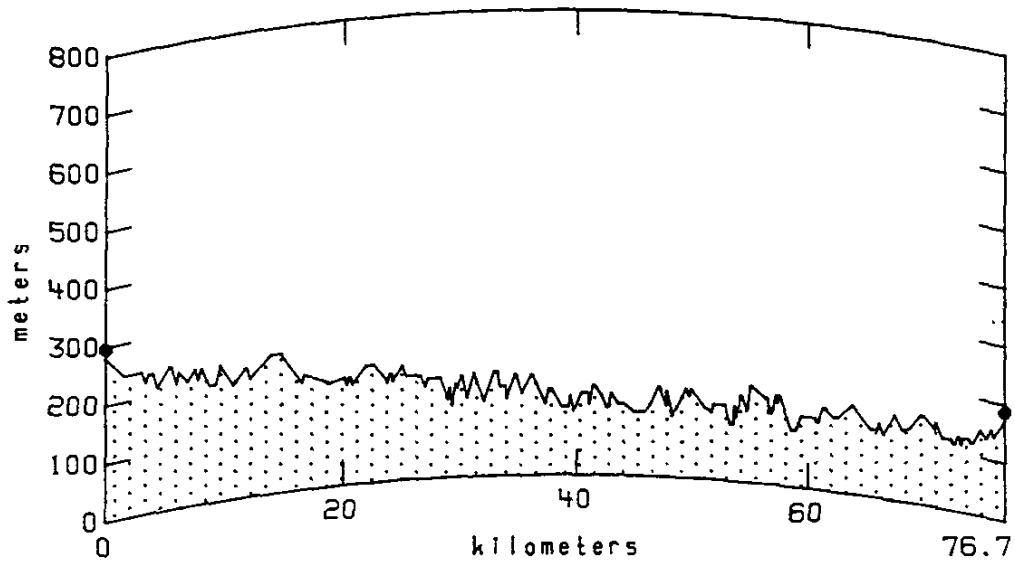
T1–80–R5 Path length, 78.2 km




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 10/24/66–van 2 | 137.2 | 159.0 | 166.6 | 171.8 | 187.3 | Noise | Noise |

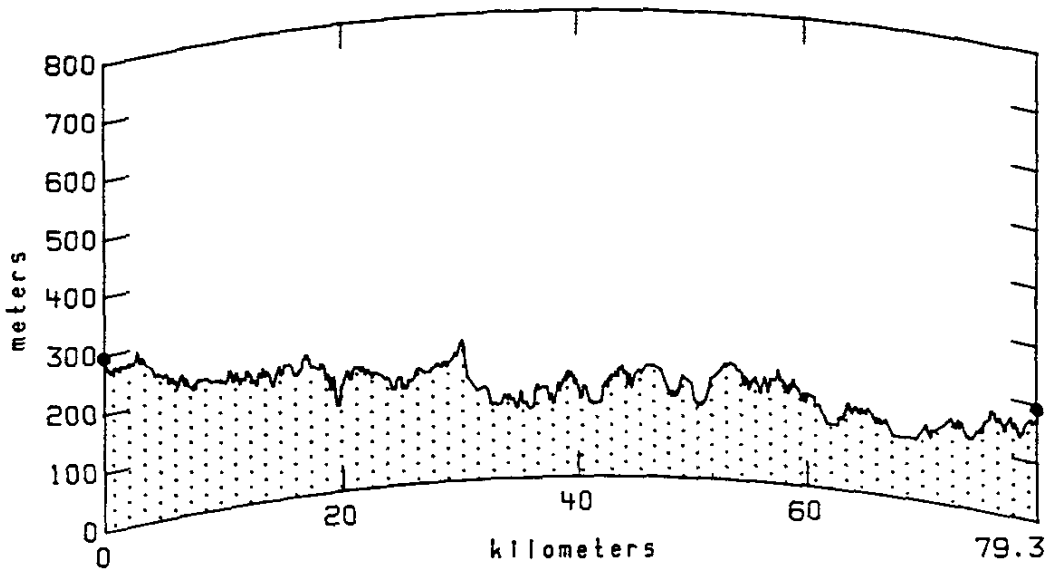
The site is in a pasture; there are large trees below the horizon at 1000 m.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/25/66–van 2 | 15.0<br>133.3 | 15.0<br>149.0 | 15.0<br>161.1 | 11.7<br>178.8 | 11.7<br>184.6 | 11.7<br>Noise | 11.7<br>Noise |
| Concealed: | | | | | | | |
| Rcvr hts, m<br>10/26/66–van 2 | 13.3<br>134.3 | 13.3<br>155.0 | 13.3<br>168.6 | 10.0<br>179.8 | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise |
| Rcvr hts, m<br>10/26/66–van 2 | 2.0<br>151.1 | 2.0<br>162.4 | 2.0<br>168.2 | 2.0<br>184.6 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

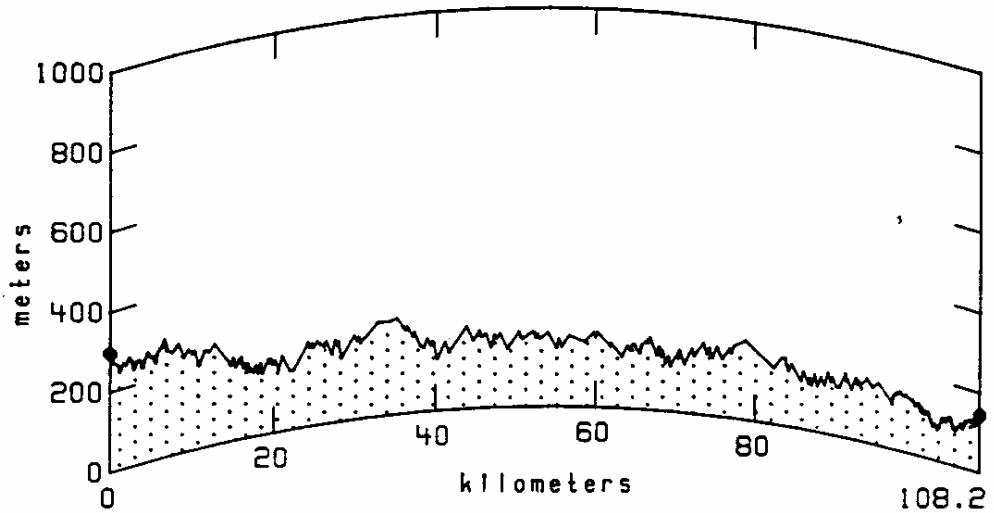
The open position has telephone and power lines across the path at 150 m. The concealed position is behind oak trees 15 m away.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 10/29/66–van 2 | 140.3 | 159.0 | 178.6 | 179.8 | Noise | Noise | Noise |

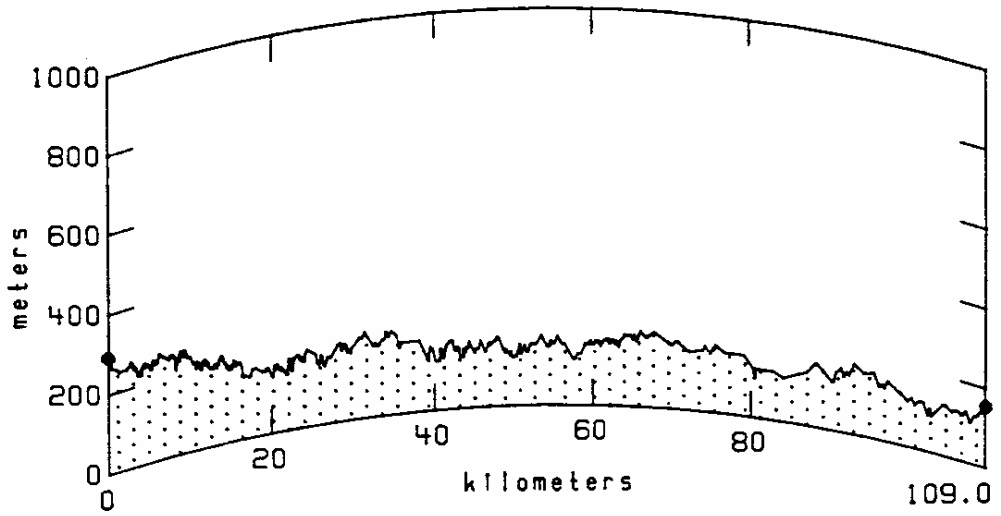
The site is in an open pasture with large trees 600 m ahead.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 11/07/66–van 2 | 154.8 | 173.0 | 185.6 | Noise | Noise | Noise | Noise |

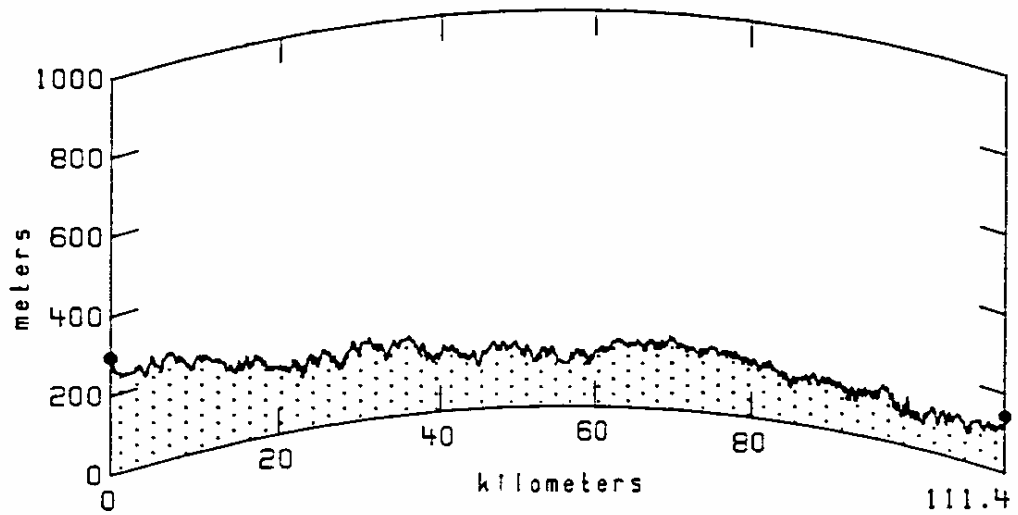
The site is in an open field with a telephone line 30 m ahead and power lines at 300 m.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 11.3 | | | 8.0 | | | |
| Rcvr hts, m<br>11/03/66–van 2 | 13.3<br>156.3 | 13.3<br>175.0 | 13.3<br>186.0 | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise |
| Concealed: | | | | | | | |
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>11/04/66–van 2 | 15.0<br>154.0 | 15.0<br>175.0 | 15.0<br>191.0 | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Rcvr hts, m<br>11/04/66–van 2 | 2.0<br>179.6 | 2.0<br>183.9 | 2.0<br>198.2 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

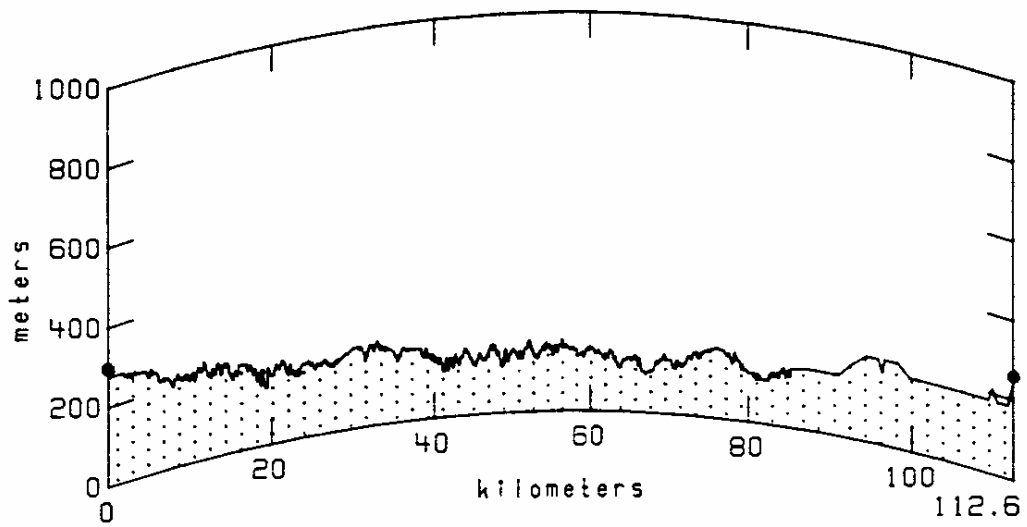
The site is in an open field; there are large trees 800 m ahead. The concealed position is 15 m behind large oak trees.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m | 15.0 | 15.0 | 15.0 | 11.7 | 11.7 | 11.7 | 11.7 |
| 11/02/66–van 2 | 153.3 | 172.0 | 185.6 | 185.8 | 191.3 | Noise | Noise |

The site is in an open area; there are telephone lines at 50 m and trees at 600 m.




Basic Transmission Loss, $L_b$ (dB)

| freq, MHz | 75.98 | 172.98 | 409.25 | 950 | 2180 | 4820 | 8395 |
|---|---|---|---|---|---|---|---|
| Xmtr hts, m | 15.0 | | | 11.7 | | | |
| Rcvr hts, m<br>10/31/66–van 2 | 15.0<br>156.3 | 15.0<br>167.9 | 15.0<br>Noise | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise | 11.7<br>Noise |
| Concealed: | | | | | | | |
| Rcvr hts, m<br>11/01/66–van 2 | 13.3<br>152.3 | 13.3<br>170.0 | 13.3<br>190.6 | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise | 10.0<br>Noise |
| Rcvr hts, m<br>11/01/66–van 2 | 2.0<br>166.6 | 2.0<br>174.9 | 2.0<br>191.2 | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise | 2.0<br>Noise |

The site is on a hill top and the path is clear to the horizon. The concealed position has large trees surrounding the antennas.